

Contribution to LEED® regulation credits

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PLAZA

19/06/2023



Marazzi Group S.r.l is a member of the Green Building Council Italia, an association that promotes sustainable, energy efficient and environmentally friendly building, helping to improve people's quality of life with the LEED® standards and certification.

| | | |
|------------------|--|-----------------------------|
| Credit MR | Sourcing of Raw Materials RECYCLED MATERIAL CONTENT | (up to 1 LEED point) |
|------------------|--|-----------------------------|

Marazzi Group uses partially recycled materials to produce several porcelain stoneware collections. The recycled material comes from:

- *purchased raw materials*, which contain a certain amount of recycled material
- *recycled processing materials* (tile waste, water and processing sludge) from external companies and other Group plants.

| % pre-consumer | % post-consumer | Product |
|----------------|-----------------|---|
| 30% | 0% | size 60x120 – 60x60 – 30x60 - 30x90 – 100x100 All colors |

| | | |
|------------------|---|------------------------------|
| Credit MR | Material Ingredients MATERIAL INGREDIENT REPORTING | (up to 2 LEED points) |
|------------------|---|------------------------------|

Marazzi Group has published the material ingredient report for slabs and tiles to ensure transparent communication on the possible hazards of the substances used. The reports are available on the website [Download | Marazzi \(marazzigroup.com\)](https://www.marazzigroup.com) :

- **Health Product Declaration (HPD)** "*Ceramic tiles and stoneware slabs brand Marazzi, brand Ragno by Marazzi Group*"
- **Declare label** designated as **Red List Free** "*Ceramic tiles and stoneware slabs: Marazzi brand, Ragno brand*"

| | | |
|------------------|---|------------------------------|
| Credit MR | Material Ingredients MATERIAL INGREDIENT OPTIMIZATION REACH optimization | (up to 2 LEED points) |
|------------------|---|------------------------------|

Marazzi Group has screened all ingredients used in its products up to 100 ppm. No substances used are identified in the REACH Regulation as substances of Very High Concern listed on the REACH Authorization List (Annex XIV) nor on the SVHC Candidate List (Annex XVII).

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| Credit MR | Sourcing of Raw Materials REGIONAL MATERIALS | (doubling of the product % value) |
|-----------|---|--------------------------------------|
|-----------|---|--------------------------------------|

Marazzi Group tiles are made from recycled processing materials and raw materials from companies and quarries located partly within a radius of 160 km (100 miles) from the production plants. Upon request, we will calculate the specific percentage of regional materials based on the distance between the project site and the Marazzi Group plant.

| Credit MR | Building Product Disclosure and Optimization ENVIRONMENTAL PRODUCT DECLARATION | (up to 2 LEED points) |
|-----------|---|-----------------------|
|-----------|---|-----------------------|

Marazzi Group has assessed the lifecycle impacts of its products from cradle to grave and published the **Environmental product declaration (EPD)** available at site [Download | Marazzi \(marazzigroup.com\)](https://marazzigroup.com).

| EPD plant | Product |
|----------------------------|---|
| Spain EPD industry wide | size 60x120 – 60x60 – 30x60 - 30x90 – 100x100 All colors |

| Credit MR | Sourcing of Raw Materials RAW MATERIAL SOURCE AND EXTRACTION REPORTING | (up to 1 LEED point) |
|-----------|---|-------------------------|
|-----------|---|-------------------------|

The raw materials used in the production of Marazzi Group tiles are harvested from quarries with environmentally responsible management. Marazzi Group requires to its suppliers a report with:

- the map showing the location of the quarry
- the mining authorization
- the environmental recovery plan and/or the environmental impact assessment report
- the declaration of compliance with Council Directive 92/43/EEC (habitats) and Council Directive 79/409/EEC (birds) or, for areas outside the EU Community, compliance with the UN convention on biological diversity (1992)

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Credit MR

CONSTRUCTION AND DEMOLITION WASTE
MANAGEMENT

(up to 2 LEED points)

Tiles left over after installation and their cutting scraps are inert, environmentally non-hazardous wastes that can be **disposed of for recovery**. They must be recovered with European Waste Code 170103 (unused tiles) or 170107 (aggregated with other construction material from demolition) to be reused as subgrade material for roadways, backfill material in land reclamations, recycled material in the production of bricks.

Packaging is all recyclable and must be recovered with the code 150101 (boxes - paper and cardboard), 150103 (pallets - wood), 150102 (hoods and straps - plastic).

Credit SS

HEAT ISLAND REDUCTION

(up to 2 LEED points)

To assess the contribution of ceramic tiles to the creation of buildings with a lower impact on the microclimate and habitat, Marazzi Group carries out tests to define the solar reflectance index (SRI) of roofing products and the solar reflectance value (SR) for outdoor flooring products. At your request, we will carry out tests and calculate the specific SRI of the products you are interested in.

Credit EQ

LOW-EMITTING MATERIALS

(up to 3 LEED points)

The use of ceramic tiles in the interior areas of buildings helps reduce the presence of air contaminants that compromise the comfort and well-being of installation personnel, occupants and the environment. Marazzi Group's ceramic tiles **do not release VOCs** (volatile organic compounds) as they are mineral-based finish products without integral organic-based coatings and sealants. As set by LEED, they qualify for credits without any testing requirements.

Marazzi Group tiles have been tested for compliance with **GREENGUARD and GREENGUARD GOLD** certification program. The list of products certified is available at site: [Main App - SPOT \(ul.com\)](https://www.ul.com/spot)

